ABSTRACT

The present invention provides an improved method and system for training an on-line fuzzy inference network to generate a rule base, and a rule base generated thereby.

Tuning and applying a learning rule to the fuzzy rules generated by the fuzzy inference network in such as manner as to divorce the performance of the network from the number of input dimensions allows the present invention to adapt a fuzzy inference network such as a SONFIN to be effective for the classification of high-dimensional data in problems requiring the use of a high number of dimensions such as occupant recognition in vehicles, weather forecasting, and economic forecasting.

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